UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

#### NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

04/09/2002

Sughrue, Mion, Zinn, Macpeak & Seas, PLLc 2100 Pennsylvania Avenue N. W. Washinton, DC 20037-3202

EXAMINER

STEWART JR, CHARLES W

ART UNIT CLASS-SUBCLASS

347-019000

2853 DATE MAILED: 04/09/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/484,458	01/18/2000	Satoshi Shinada	Q575519	9719

TITLE OF INVENTION: INK-JET PRINTING APPARATUS AND INK CARTRIDGE THEREFOR

TOTAL CLAIMS	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
38	nonprovisional	NO	\$1280	\$0	\$1280	07/09/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### **HOW TO REPLY TO THIS NOTICE:**

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

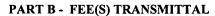
B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

□ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.







Complète and mail this form, together with applicable fee(s), to:

**Box ISSUE FEE** 

**Assistant Commissioner for Patents** 

Washington, D.C. 20231

where appropriate. All fi	urther correspondence is ed below or directed or	ncluding the Patent, advance	ce orders and notificat	ion of maintenance fee	E (if required). Blocks I thrown the currents; and/or (b) indicating a separate of the currents;	t correspondence address as
Sughrue, Mion	7590 04/0 , Zinn, Macpeak nia Avenue N. W.	oly mark-up with any corrections of 9/2002 & Seas, PLLc	ruse Block I)	mailings of the Fee other accompanying or formal drawing, r	te of mailing below can or (s) Transmittal. This certifical g papers. Each additional pap must have its own certificate of Certificate of Mailing at this Fee(s) Transmittal is I Service with sufficient postagi i to the Box Issue Fee additional can be seen additional care.	te cannot be used for any er, such as an assignment f mailing.  being denosited with the
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APPLICATION NO.	FILING DATI	E	FIRST NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/484,458	01/18/2000	· <u>I</u>	Satoshi Shinada		Q575519	9719
TOTAL CLAIMS 38	APPLN. TYPE nonprovisional	SMALL ENTITY NO	ISSUE FEE \$1280	PUBLICATION F	TOTAL FEE(S) DUE \$1280	DATE DUE 07/09/2002
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SIEWARIJ	R, CHARLES W	2853	347-01900	00		
CFR 1.363). Use of PT but not required.  Change of corresponded corres	O form(s) and Custome ondence address (or Chab/122) attached.	tion of "Fee Address" (37 or Number are recommende ange of Correspondence	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.			
3. ASSIGNEE NAME A	ND RESIDENCE DAT	TA TO BE PRINTED ON 1	THE PATENT (print o	or type)		
PLEASE NOTE: Unle	ss an assignee is identif ted to the USPTO or is	fied below, no assignee da being submitted under sep	ta will appear on the p	patent. Inclusion of as on of this form is NOT	signee data is only appropriat a substitute for filing an assig UNTRY)	e when an assignment has inment,
Please check the appropr	iate assignee category c	or categories (will not be pr	rinted on the patent)	🗅 individual 🚨	corporation or other private gr	roup entity 🚨 government
a. The following fee(s)	are enclosed:	4b	. Payment of Fee(s):			
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☐ Publication Fee			Payment by credit care			
□ Advance Order - # of Copies □ The Depos			The Commissioner is posit Account Number	hereby authorized by o	charge the required fee(s), or c (enclose an extra copy of this	redit any overpayment, to form).
The COMMISSIONER (		RADEMARKS is requested	to apply the Issue Fe	e and Publication Fee	(if any) or to re-apply any pre	viously paid issue fee to the

NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

(Date)

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending on the needs of the individual case. Any comments on the amount of time required to complete this form should be sent to the Chief Information Officer, United States Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND FEES AND THIS FORM TO: Box Issue Fee, Assistant Commissioner for Patents, Washington, D.C. 20231

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(Authorized Signature)



#### United States Patent and Trademark Office



APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/484,458	01/18/2000	Satoshi Shinada	Q575519	9719	
75	90 04/09/2002		EXAMINI	ER	
Sughrue, Mion, Zinn, Macpeak & Seas, PLLc 2100 Pennsylvania Avenue N. W.			STEWART JR, CHARLES W		
Washinton, DC 200			ART UNIT	PAPER NUMBER	
UNITED STATES			2853		
		D	DATE MAILED: 04/09/2002		

# Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

## Notice of Allowability

Application No. **09/484,458** 

Applicant(s)

Satoshi Shinada et al.

Examiner

Charles Stewart, Jr.

Art Unit

2853



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

(or previously mailed), a Notice of Allowance and Issue Fee Due or other app THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. The initiative of the Office or upon petition by the applicant. See 37 CFR 1.3	his application is subject to withdrawal from issue at
1. X This communication is responsive to Amendment filed April 4, 20	
2. X The allowed claim(s) is/are 23-34, 66-76, 84-94, and 115-118	·
3. X The drawings filed on Jan 18, 2000 are acceptable as for	ormal drawings.
4. Acknowledgement is made of a claim for foreign priority under 3	5 U.S.C. § 119(a)-(d).
a) 🗌 All b) 🗍 Some* c) 🗎 None of the:	
1. Certified copies of the priority documents have been receive	ved.
2.  Certified copies of the priority documents have been received.	ved in Application No
3. Copies of the certified copies of the priority documents have application from the International Bureau (PCT Rule 17.2)	2(a)).
*Certified copies not received:	
5. Acknowledgement is made of a claim for domestic priority under	35 U.S.C. § 119(e).
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communicated below. Failure to timely comply will result in ABANDONMENT of this EXTENDABLE.	nication to file a reply complying with the requirements application. THIS THREE-MONTH PERIOD IS NOT
6. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INITION reason(s) why the oath or declaration is deficient. A SUBSTITUTION	FORMAL APPLICATION (PTO-152) which gives JTE OATH OR DECLARATION IS REQUIRED.
7. Applicant MUST submit NEW FORMAL DRAWINGS	
(a) $\square$ including changes required by the Notice of Draftsperson's Pa	etent Drawing Review (PTO-948) attached
1) 🗆 hereto or 2) 🗀 to Paper No	
(b) including changes required by the proposed drawing correction	on filed, which has been
approved by the examiner.	
(c) including changes required by the attached Examiner's Amen Paper No	
(c) including changes required by the attached Examiner's Amen Paper No  Identifying indicia such as the application number (see 37 CFR 1.84) drawings should be filed as a separate paper with a transmittal letter	dment/Comment or in the Office action of (c)) should be written on the drawings. The raddressed to the Official Draftsperson.
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(c) including changes required by the attached Examiner's Amen Paper No.  Identifying indicia such as the application number (see 37 CFR 1.84 drawings should be filed as a separate paper with a transmittal letter.  8. Note the attached Examiner's comment regarding REQUIREMENT Any reply to this letter should include, in the upper right hand corner, to NUMBER). If applicant has received a Notice of Allowance and Issue Fethe NOTICE OF ALLOWANCE should also be included.  Attachment(s)	dment/Comment or in the Office action of (c)) should be written on the drawings. The raddressed to the Official Draftsperson.  FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. The APPLICATION NUMBER (SERIES CODE/SERIAL Dee Due, the ISSUE BATCH NUMBER and DATE of
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## Reasons for Allowance

The following is a statement of reasons for allowable subject matter:

The inclusion of the claimed invention, as claimed in the combination is not found in the prior art. The difference is considered patentable over the prior art since a plurality of external walls, including a first wall and a second wall, defining at least some of a chamber; an ink supply port for receiving said ink supply needle, the ink supply having a centerline and communicating with the chamber; a semiconductor storage device storing information about the ink carried by said cartridge; and a plurality of contact for connecting the semiconductor storage device to the ink jet printing apparatus, the contact being formed in a plurality of rows lying essential in a plane parallel to the centerline of the ink supply port each said row being center relative to the centerline of said ink supply ports, reflects an improvement in the filed of endeavor and over the prior art of record.

Claims 23-34, 68 and 115 have been amended to overcome the prior art rejections.

Claims 1-22, 35-65, 77-83, 95-114, 119-123 and 124 have been canceled in order to provide a more complete scope of protection of the claimed invention. The claimed elements as recited in the claimed combination, are deemed to be novel features providing unanticipated and nonobvious results. Claims 24-34, 115-117 and 118 depends from allowable base claim 23 are deemed to be allowable. Claims 67-76 depends from allowable base claim 66 are deemed to be allowable. Claims 86-94 depends from

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allowable base claim 84 are deemed to be allowable. Claim 85 is deemed to be an allowable base claim.

## Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

To the Claim

Claim 119 has been canceled.

## **Authorization**

Authorization for this examiner's amendment was given in a telephone interview with Mr. David Schaeffer on April 5, 2002

#### Conclusion

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Charles W. Stewart, Jr. whose telephone

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number is (703) 308-7252. The Examiner can normally be reached on Monday-Friday from 8:30 a.m to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Barlow, Jr. Art Unit 2853, can be reached on (703) 308-3126. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3432.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

cws

April 4, 2002

John Barlow
Supervisory Patent Examiner
Technology Center 2800